

BRDTC123YKAQ

Rev 2025

5 Ø / Descriptions

95: .> // xJ. 4 6 4 â o 9 O R O I U T 4 6 4 * O Z M C R Z X G T Y O Y Z U X R C T Y Z O 9 5 G I Q G M K

/“ / Features

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Wbpb

gdbb

fbpb

AE C-001 6

HF 0

— ÷ / Applications

9 ... o μ Ł Y C Ü Ł k Æ V æ } L o

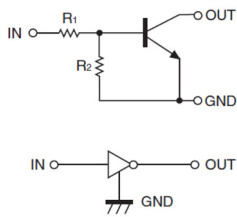
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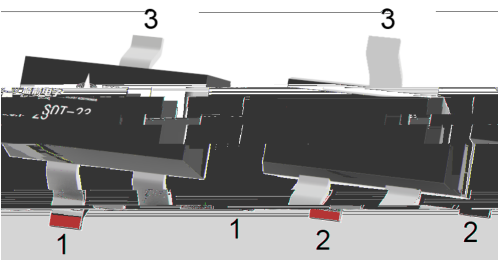
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^ W] Ô / Equivalent Circuit



Û æ / Pinning



P1 y IN P2 y GND P3 y V

Z Ü B , M V / hFE Classifications & Marking

9	Q2
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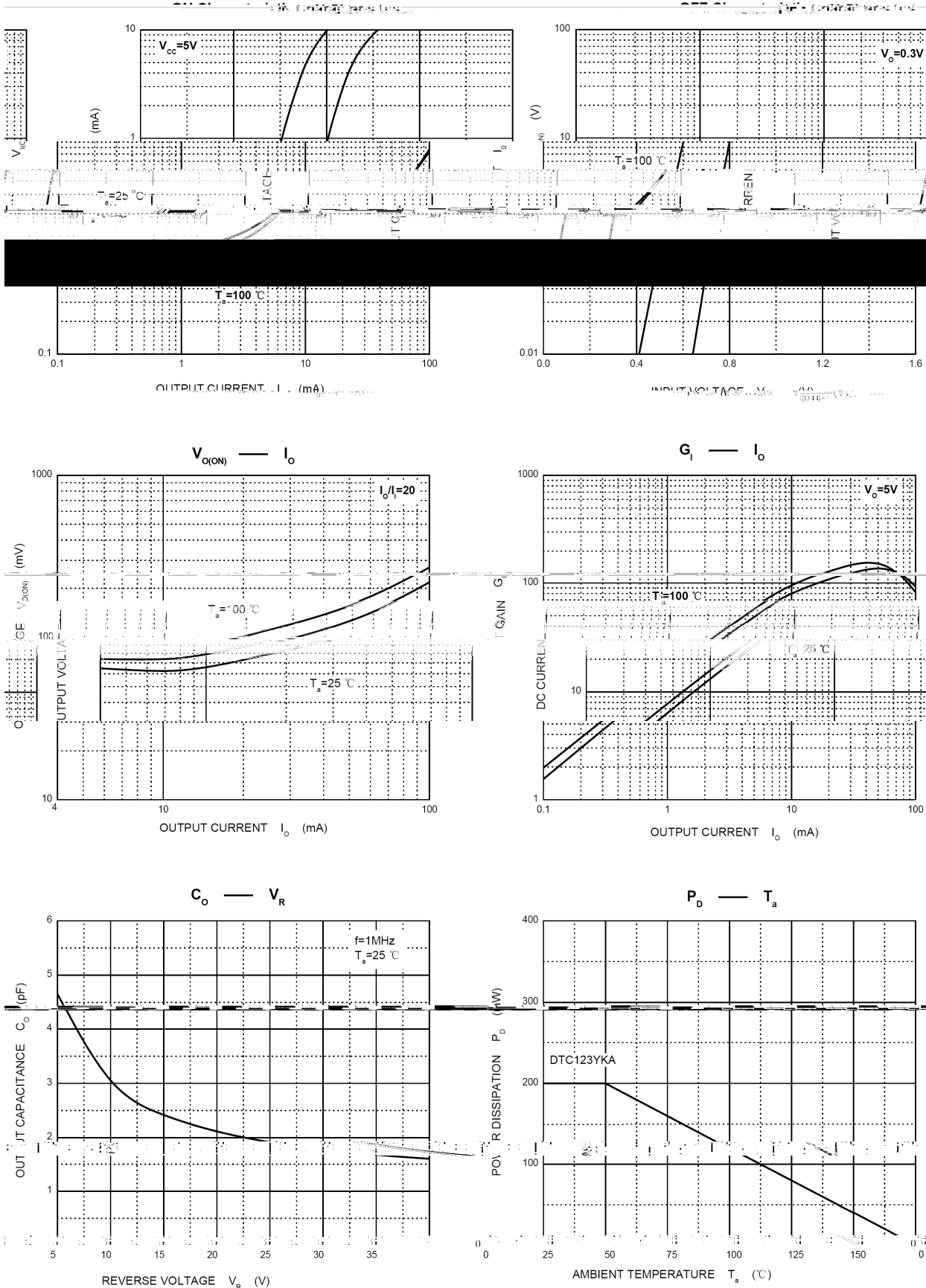
1. Absolute Maximum Ratings(Ta=25 ;)

Parameter	Symbol	Unit	Value
Supply Voltage	V _{CC}	V	50
Input Voltage	V _{IN}	V	12
Input Voltage	V _{IN}	V	-5
Output Current	I _O	A	100
Power Dissipation	P _D	mW	200
Junction Temperature	T _j	°C	-55 ~ 150
Storage Temperature	T _{stg}	°C	-55 ~ 150

2. Electrical Characteristics(Ta=25 ;)

Parameter	Symbol	Unit	Value	Test Conditions
Input Voltage	V _{IN}	V	0.3	V _{CC} =5.0V, I _O =100 A
Input Voltage	V _{IN}	V	3	V _O =0.3V, I _O =20A
Input Voltage	V _{IN}	V	0.1	I _O =10A, I _I =0.5A
Input Current	I _I	A	3.8	V _I =5.0V
Output Current	I _O	A	0.5	V _{CC} =50V, V _I =0V
DC Conversion	G		33	V _O =5.0V, I _O =10A
Resistance	R	K	1.54	
Resistance	R	K	2.2	
Resistance	R	K	2.86	
Frequency	f	Hz	250	V _O =10V, I _O =5.0A, f=100Hz

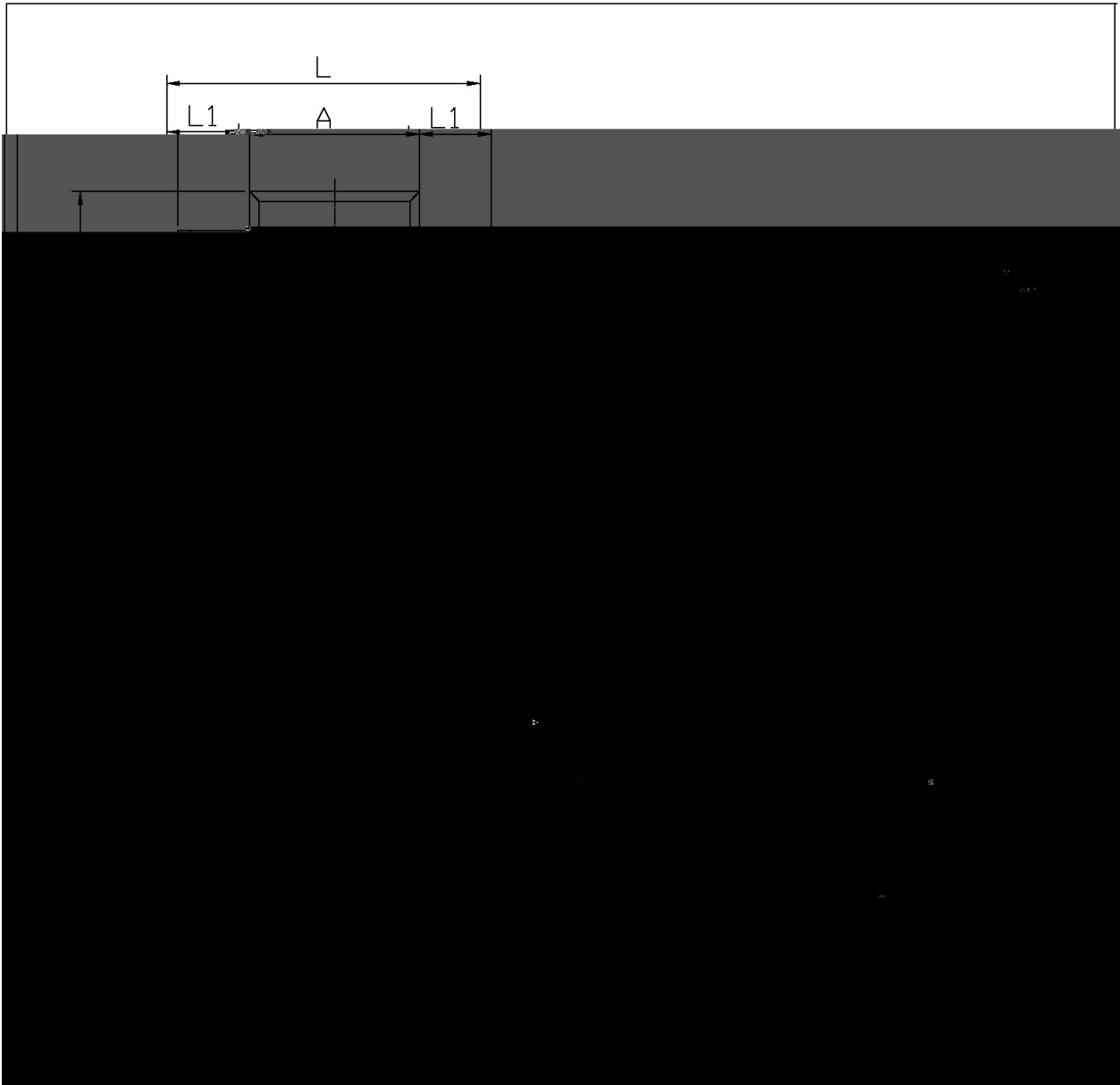
Electrical Characteristic Curve



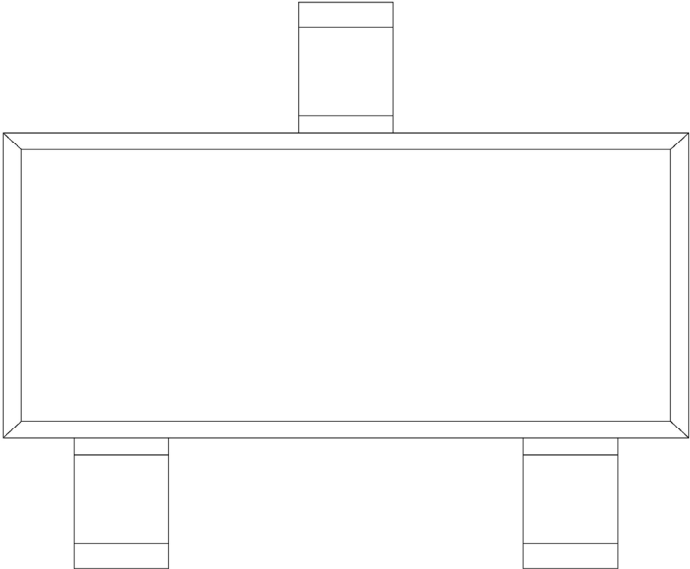
Ø =) ¢ / Package Dimensions

SOT-23

单位：mm



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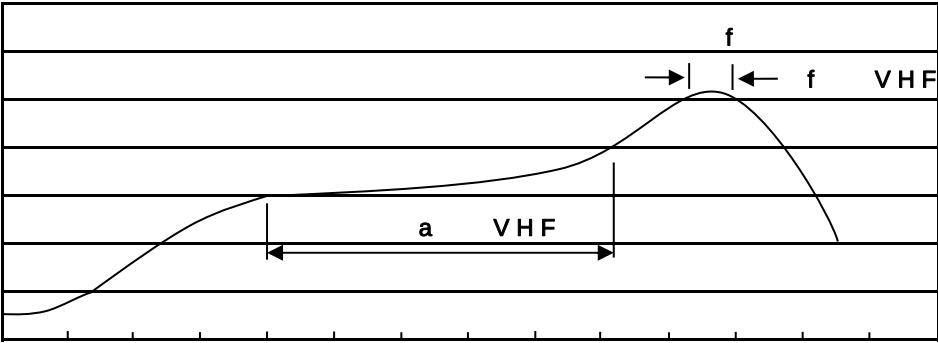
2025



DATA SHEET

WD t (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

“ y b
10 ~ % 150 %200 - k 60 %120e 1.50200 - , 10120e
20 Q 255 r5 - k 4 5 r0.5e 2.255 r5 - , D15 r0.5e
30 D N òi 00 , 2 %10 - /e 3. C1210 - /e

Resistance to Soldering Heat Test Conditions

y 260 r5 - y 10 r1 e 2605 10± e

Packaging SPEC.

2 & x / RE

7>ß E	Units/Reel					Units/Inner Box			Units/Outer Box		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box	Reel	Inner Box	Outer Box
23	3,000	10	30,000	6	180,000	7	T 8	180±20±80	390	885±05	

Notices